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| L12 | 1 | 3 and 11 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L11 | 4484 | 8 10 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L10 | 1572 | 702/189.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L9 | 0 | 3 and 8 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L8 | 2915 | L4 L5 L6 L7 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L7 | 99 | 348/392.1,405.1,424.1.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L6 | 120 | 329/361.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L5 | 1242 | 327/9,33,45,91.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |

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| L4 | 1478 | 375/355,263.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 16:53 |
| L3 | 1 | (rate (sub near nyquist) uniform reconstruct\$4 (time or shift\$4) (weight or tap or coefficient)). clm. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/05/02 16:53 |
| L2 | 3 | (rate nyquist uniform reconstruct \$4 (time or shift\$4) (weight or tap or coefficient)).clm. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/05/02 16:52 |
| L1 | 17 | (rate nyquist uniform).clm. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/05/02 16:51 |
| S79 | 84 | S76 and S78 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 13:35 |
| S78 | 263 | rate nyquist uniform | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | SAME | ON | 2009/05/02 13:35 |
| S77 | 32 | S75 and S76 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 13:10 |
| S76 | 23061723 | @ad< "20010326" | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 13:10 |
| S75 | 60 | rate with nyquist with uniform | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/02 13:10 |

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| S74 | 2 | ("7167530").PN. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/01 10:34 |
| S73 | 53 | S71 and S72 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:47 |
| S72 | 23061723 | @ad<"20010326" | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S71 | 126 | S69 and S70 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S70 | 11503 | nyquist with sampl\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S69 | 140 | S67 and S68 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S68 | 919 | (reconstruct\$4 same sampling). ab. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S67 | 21050 | nyquist | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:46 |
| S66 | 8516 | reconstruct\$4 same sampling | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/30 12:45 |

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| S65 | 0 | S64 and S63 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 16:06 |
| S64 | 2 | reconstruct\$4 with (nyquist near rate) with (weight tap coefficient) | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 16:06 |
| S63 | 240 | S60 S61 S62 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 16:05 |
| S62 | 86 | US-6933882-\$.D.I.D. OR US- 6937663-\$.D.I.D. OR US-6937674- \$.D.I.D. OR US-6950485-\$.D.I.D. OR US-6959031-\$.D.I.D. OR US- 6963727-\$.D.I.D. OR US-6989751- \$.D.I.D. OR US-7020224-\$.D.I.D. OR US-1080463-\$.D.I.D. OR US- 7027483-\$.D.I.D. OR US-7030806- \$.D.I.D. OR US-7046187-\$.D.I.D. OR US-7099368-\$.D.I.D. OR US- 7132975-\$.D.I.D. OR US-7148791- \$.D.I.D. OR US-7167525-\$.D.I.D. OR US-7184938-\$.D.I.D. OR US- 7190729-\$.D.I.D. OR US-7209724- \$.D.I.D. OR US-7239277-\$.D.I.D. OR US-7271779-\$.D.I.D. OR US- 7256727-\$.D.I.D. OR US-7230980- \$.D.I.D. OR US-7206334-\$.D.I.D. OR US-7190722-\$.D.I.D. OR US- 7170408-\$.D.I.D. OR US-7151490- \$.D.I.D. OR US-7145954-\$.D.I.D. OR US-7129886-\$.D.I.D. OR US- 7099367-\$.D.I.D. OR US-7075476- \$.D.I.D. OR US-7046618-\$.D.I.D. OR US-7042417-\$.D.I.D. OR US- 7027425-\$.D.I.D. OR US-7015793- \$.D.I.D. OR US-6980613-\$.D.I.D. OR US-6959032-\$.D.I.D. OR US- 6947492-\$.D.I.D. OR US-6937667- \$.D.I.D. OR US-6925109-\$.D.I.D. OR US-6922166-\$.D.I.D. OR US- 6917284-\$.D.I.D. OR US-6912240- \$.D.I.D. OR US-6906625-\$.D.I.D. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 16:05 |

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| S56 | 0 | S54 and S55 and S49 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 15:09 |

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| S52 | 120 | 329/361.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 15:08 |
| S51 | 1231 | 327/9,33,45,91.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/09 15:08 |
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| S48 | 11 | S47 and S46 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:05 |
| S47 | 157 | sinc same spline | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:04 |

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| S46 | 29 | S38 and S45 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:01 |
| S45 | 56 | sinc and S43 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:01 |
| S44 | 1 | S43 and uwb | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:00 |
| S43 | 2169 | spline near (transfer function) | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/21 00:00 |
| S42 | 102460 | spline | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 23:59 |
| S41 | 5 | (bilevel (bi adj level)) and uwb | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 23:44 |
| S40 | 7 | (sinc near transfer) | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 23:37 |
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| S36 | 18 | ("20030151411" "2671896" "3666316" "3806795" "5337054" "5677927" "6351246" "6700939" "6735238").PN. OR ("6834073"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/04/20 22:31 |
| S35 | 8 | S17 S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/04/20 17:39 |
| S34 | 18 | S26 S21 (uwb or cdma) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/04/20 17:33 |
| S33 | 9 | S30 S26 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/04/20 17:32 |
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| S29 | 15 | S28 S26 S21 (uwb or cdma) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/04/20 17:27 |

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| S26 | 1281 | ((lower less below) near (shannon nyquist) | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:44 |
| S25 | 89 | ((cdma uwb) and S23 and S24 and S21 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:24 |
| S24 | 3453 | ((((lower less below) near (shannon nyquist) near rate)) ((shannon nyquist) near rate) | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:23 |
| S23 | 10715 | ((shannon nyquist)) with sample\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:22 |
| S22 | 2458 | ((shannon nyquist) near rate) with sample\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:22 |
| S21 | 23055602 | @ad<"20010326" | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 16:15 |
| S20 | 1 | dirac and S17 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 15:41 |

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| S19 | 3 | S17 and S18 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 15:23 |
| S18 | 2197 | reconstruct\$4 near sampl\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 15:23 |
| S17 | 42 | (cdma uwb) and S16 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 15:07 |
| S16 | 277 | ((lower less below) near (shannon nyquist) near rate) with sampl\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 15:07 |
| S15 | 11 | (sampl\$4.ab.) and S14 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:59 |
| S14 | 21 | (cdma uwb) and S13 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:58 |
| S13 | 128 | (nyquist shannon) and S11 and interval | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:56 |
| S12 | 216 | (nyquist shannon) and S11 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:22 |
| S11 | 2715 | S7 S8 S9 S10 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:19 |

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| S10 | 99 | 348/392.1,405.1,424.1.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:19 |
| S9 | 120 | 329/361.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:16 |
| S8 | 1219 | 327/9,33,45,91.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:16 |
| S7 | 1300 | 375/355,263.ccls. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:16 |
| S6 | 592 | ((lower less below) near (shannon nyquist)) with samp1\$4 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:11 |
| S5 | 3 | S4 and sampling.clm. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:02 |
| S4 | 31 | S1 S2 S3 | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:02 |
| S3 | 4 | (blu near thierry).in. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:02 |
| S2 | 4 | (marziliano near pina).in. | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:01 |

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| S1 | 29 | (vetterli near martin).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/04/20 14:01 |
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